Analysis of Proposed Tier II and Tier III General Service Incandescent Lamp Energy Savings

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Present Value of Savings for General Service Soft White and Frosted/Clear Incandescent Lamps

Proposed Standard	*Design Life (years)*	*Annual Unit Energy Savings (kWh)*	*Annual Unit Energy Cost Savings ($) @ $.115/kWh*	*Annual Sales (million units)*	*First-Year Statewide Energy Savings (million kWh)*	*Incremental Cost of Improvement per Unit ($)*	*Reduced Cost Over the Design Life of the Appliance ($)*
Tier 1	1.1	1.07	$0.12	74	79	$0.06	$0.08
Tier 2	1.1	4.2	$0.48	68	284	$0.16	$0.37
Tier 3	1.1	4.3	$0.49	74	315	$0.16	$0.38

Simple Payback for General Service Soft White and Frosted/Clear Incandescent Lamps

Proposed Standard	*Added First Cost per Unit*	*Annual Unit Energy Savings (kWh)*	*Annual Unit Energy Cost Savings ($) @ $.115/kWh*	*Design Life (years)*	*Simple Payback Period (years)*
Tier 1	$0.06	1.1	$0.12	1.1	0.5
Tier 2	$0.16	4.2	$0.48	1.1	0.3
Tier 3	$0.16	4.3	$0.49	1.1	0.3

Present Value of Savings for General Service Enhanced Spectrum Incandescent Lamps

Equivalent Bulb Wattage (watts)	Assumed Market Share	Unit Sales (millions per year)	Achievable Power Reduction Through Krypton (watts)	Energy Savings per Unit per Year (kWh)	Cost of Energy Savings per Unit per Year @ $0.115/kWh	Assumed Product Lifetime (years)	Incremental Cost to Achieve Energy Savings	Lifetime Reduction in Total Cost of Ownership	Statewide First-Year Energy Savings (million kWh)
40	16%	0.5	5	5.5	$0.63	1.1	$0.16	$0.53	3.0
60	32%	1.1	3	3.3	$0.38	1.1	$0.16	$0.26	3.6
75	21%	0.7	4	4.4	$0.50	1.1	$0.16	$0.39	3.1
100	26%	0.9	5	5.5	$0.63	1.1	$0.16	$0.53	4.8
								TOTAL	**11.5**